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COMMITTEE ON THE PEACEFUL USES OF
OUTER SPACE

INFORMATION FURNISHED IN CONFORMITY WITH THE CONVENTION ON
REGISTRATION OF OBJECTS LAUNCHED INTO OUTER SPACE

Note verbale dated 16 July 1990 from the Permanent Mission of the Union of Soviet Socialist Republics to the United Nations addressed to the Secretary-General

The Permanent Mission of the Union of Soviet Socialist Republics to the United Nations presents its compliments to the Secretary-General of the United Nations and, in conformity with article IV of the Convention on Registration of Objects Launched into Outer Space, has the honour to transmit information concerning space objects launched by the USSR in March 1990 and concerning objects previously launched into earth orbit which are no longer in orbit.

REGISTRATION DATA ON SPACE OBJECTS LAUNCHED BY THE USSR IN MARCH 1990

1. In March 1990, the USSR launched the following space objects:

No.	Name of space object	Date of launching	Basic orbit characteristics				General purpose of space object
			Apogee (km)	Perigee (km)	Inclination (degrees)	Period (minutes)	
1	2	3	4	5	6	7	8
2547*	PROGRESS M-3	1 March	245	188	51.6	88.6	Delivery of various cargoes to the Mir orbital station
2571	Cosmos-2060	14 March	430	412	65	92.7	Investigation of outer space
2572	Cosmos-2061 (launched by a Cosmos carrier rocket)	20 March	1 031	994	82.9	105.1	Investigation of outer space
2573	Cosmos-2062 (launched by a Soyuz carrier rocket)	22 March	250	194	82.3	88.6	Investigation of the upper atmosphere and outer space
2574	Cosmos-2063 (launched by a Molniya carrier rocket)	27 March	39 346	602	62.9	70.9	Investigation of outer space

All objects were launched from the territory of the USSR.

2. The following space objects ceased to exist in March 1990 and were no longer in earth orbit at 2400 hours Moscow time on 31 March 1990:

Cosmos-236 (1968-070)
Cosmos-2057 (1990-009)

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* Following the introduction of a correction to delete from the USSR register the data on Magion-2, it seems appropriate to assign entry No. 2547 to PROGRESS M-3.

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INFORMATION FURNISHED IN CONFORMITY WITH THE CONVENTION ON
REGISTRATION OF OBJECTS LAUNCHED INTO OUTER SPACE

Note verbale dated 17 July 1990 from the Permanent Representative of India to the United Nations addressed to the Secretary-General

The Permanent Representative of India to the United Nations presents his compliments to the Secretary-General of the United Nations and, in accordance with the Convention on Registration of Objects Launched into Outer Space, has the honour to transmit the following information concerning the INSAT-ID satellite launched from the Eastern Space and Missile Centre, Florida, United States of America, by a Delta 4925 rocket.

(a)	Name of launching State or States:	India
(b)	Appropriate designator of the space object or its registration number:	INSAT-ID
(c)	Date and territory or location of launch:	
	(i) Launch vehicle:	Delta 4925
	(ii) Launch date:	12 June 1990
	(iii) Launch site:	Eastern Space and Missile Centre, Florida, U.S.A.
(d)	Basic orbital parameters:*	83° East orbital position in the geostationary satellite orbit

* As of 22 June 1990.

(i)	Nodal period:	1,436.148 min
(ii)	Inclination:	0.1932 deg
(iii)	Apogee:	35,811 km (altitude)
(iv)	Perigee:	35,770 km (altitude)

(e) General function of the space object:

Purpose: Operational multi-purpose satellite for telecommunications, meteorological imaging and data relay, radio and television programme distribution and direct television broadcasting for community reception

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ON REGISTRATION OF OBJECTS LAUNCHED INTO OUTER SPACE

Note verbale dated 26 July 1990 from the Permanent Mission of the Union of Soviet Socialist Republics to the United Nations addressed to the Secretary-General

The Permanent Mission of the Union of Soviet Socialist Republics to the United Nations presents its compliments to the Secretary-General of the United Nations and, in conformity with article IV of the Convention on Registration of Objects Launched into Outer Space, has the honour to transmit information concerning space objects launched by the USSR in April 1990 and concerning objects previously launched into earth orbit which are no longer in orbit.

REGISTRATION DATA ON SPACE OBJECTS LAUNCHED BY THE USSR IN APRIL 1990

1. In April 1990, the USSR launched the following space objects:

No.	Name of space object	Date of launching	Basic orbit characteristics				General purpose of space object
			Apogee (km)	Perigee (km)	Inclination (degrees)	Period (minutes)	
1	2	3	4	5	6	7	8
2575	Cosmos-2064* (launched by a Cosmos carrier rocket)	6 April	1 495	1 437	74	115	Investigation of outer space
2576	Cosmos-2065*	"	"	"	"	"	"
2577	Cosmos-2066*	"	"	"	"	"	"
2578	Cosmos-2067*	"	"	"	"	"	"
2579	Cosmos-2068*	"	"	"	"	"	"
2580	Cosmos-2069*	"	"	"	"	"	"
2581	Cosmos-2070*	"	"	"	"	"	"
2582	Cosmos-2071*	"	"	"	"	"	"
2583	Photon (launched by a Soyuz carrier rocket)	11 April	398	225	62.8	90.5	Space materials research
2584	Cosmos-2072 (launched by a Soyuz carrier rocket)	13 April	284	189	64.8	89	Investigation of the upper atmosphere and outer space
2585	Cosmos-2073 (launched by a Cosmos carrier rocket)	17 April	267	189	82.3	88.7	"
2586	Cosmos-2074 (launched by a Cosmos carrier rocket)	20 April	1 016	982	83	104.9	Investigation of outer space

No.	Name of space object	Date of launching	Basic orbit characteristics				General purpose of space object
			Apogee (km)	Perigee (km)	Inclination (degrees)	Period (minutes)	
1	2	3	4	5	6	7	8
2587	Cosmos-2075 (launched by a Cosmos carrier rocket)	25 April	526	487	74	94.7	Investigation of outer space
2588	Molniya-1 (launched by a Molniya carrier rocket)	26 April	40 747	654	62.8	736	Operation of the long-range telephone and telegraph communications system and transmission of USSR Central Television programmes to stations in the Orbita network
2589	Cosmos-2076	28 April	39 342	613	62.8	709	Investigation of outer space

* Space objects 2575 to 2582 were launched by a single carrier rocket.

All objects were launched from the territory of the USSR.

2. The following space objects ceased to exist in April 1990 and were no longer in earth orbit at 2400 hours Moscow time on 30 April 1990:

Cosmos-1615 (1984-127A)
Cosmos-1949 (1988-045A)
Cosmos-1960 (1988-065A)
Progress-M2 (1990-020A)
Cosmos-2062 (1990-024A)
Cosmos-2073 (1990-035A)

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Note verbale dated 20 August 1990 from the Permanent Mission of the Union of Soviet Socialist Republics to the United Nations addressed to the Secretary-General

The Permanent Mission of the Union of Soviet Socialist Republics to the United Nations presents its compliments to the Secretary-General of the United Nations and, in conformity with article IV of the Convention on Registration of Objects Launched into Outer Space, has the honour to transmit information concerning space objects launched by the USSR in May 1990 and concerning objects previously launched into earth orbit which are no longer in orbit.

REGISTRATION DATA ON SPACE OBJECTS LAUNCHED BY THE USSR IN MAY 1990

1. In May 1990, the USSR launched the following space objects:

No.	Name of space object	Date of launching	Basic orbit characteristics				General purpose of space object
			Apogee (km)	Perigee (km)	Inclination (degrees)	Period (minutes)	
2590	Progress-42	6 May	261	194	51.6	88.7	Delivery of various cargoes to the Mir orbital station
2591	Cosmos-2077 (launched by a Soyuz carrier rocket)	7 May	346	195	62.9	89.6	Investigation of the upper atmosphere and outer space
2592	Cosmos-2078 (launched by a Soyuz carrier rocket)	15 May	307	206	70	89.3	"
2593	Cosmos-2079* (launched by a Proton carrier rocket)	19 May	19 130	19 130	64.9	675	Testing of components and apparatus of the Glonass global space navigation system being set up to determine the position of the Soviet Union's civil aircraft and vessels in its merchant marine and fishing fleet
2594	Cosmos-2080*	"	"	"	"	"	"
2595	Cosmos-2081*	"	"	"	"	"	"
2596	Cosmos-2082 (launched by a Zenit carrier rocket)	22 May	880	852	71	102	Investigation of outer space

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No.	Name of space object	Date of launching	Basic orbit characteristics: Apogee (km)	Perigee (km)	Inclination (degrees)	Period (minutes)	General purpose of space object
2597	Resurs-F (launched by a Soyuz carrier rocket)	29 May	260	190	82.3	88.7	Investigation of the natural resources of the earth in the interests of various branches of the national economy of the USSR; solution of problems relating to ecology and international co-operation. In accordance with a commercial agreement, apparatus belonging to the Federal Republic of Germany is also being carried for the purpose of conducting biotechnological experiments
2598	Kristall (specialized module; launched by a Proton carrier rocket)	31 May	346	220	51.6	89.9	Experimental-industrial production of semi-conducting materials; refinement of biologically active substances for the production of new medicinal preparations; cultivation of crystals of different albumine compositions and hybridization of cells. Conduct of astrophysical and technical experiments

* Space objects 2593, 2594 and 2595 were launched by a single carrier rocket.

All objects were launched from the territory of the USSR.

2. The following space objects ceased to exist in May 1990 and were no longer in earth orbit at 2400 hours Moscow time on 31 May 1990:

Cosmos-1450 (1983-027A)
Proton (1990-032A)
Progress-42 (1990-041A)

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Note verbale dated 11 September 1990 from the Permanent Representative of the People's Republic of China to the United Nations addressed to the Secretary-General

The Permanent Representative of the People's Republic of China to the United Nations presents his compliments to the Secretary-General of the United Nations and, in conformity with article IV of the 1975 Convention on Registration of Objects Launched into Outer Space, has the honour to transmit registration data concerning space objects launched by the People's Republic of China in the period from January to July 1990.

REGISTRATION DATA ON SPACE OBJECTS LAUNCHED BY THE PEOPLE'S REPUBLIC OF CHINA
IN THE PERIOD FROM JANUARY TO JULY 1990

(All objects launched from Xichang, China)

Designation of space object	Date of launch	Apogee (km)	Perigee (km)	Inclination (deg)	Nodal period (min)	General purpose of space object
1990-1	4 February	35 741.2	205.4	31.1	630.3	Third stage of a three-stage rocket
1990-2	4 February	35 786.9	35 783.6	0.1	1 436	National operational communication satellite
1990-3	7 April	36 820.3	198.94	31.1	654.2	Third stage of a three-stage rocket
1990-4	16 July	965.1	203.4	28.5	96.6	Second stage of a two-stage rocket

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Note verbale dated 11 September 1990 from the Permanent Representative of the People's Republic of China to the United Nations addressed to the Secretary-General

Corrigendum

Page 2, table

In the column headed "Apogee", the entry for space object 1990-4 should read 985.1

90-25913 2037d (E)

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Note verbale dated 27 September 1990 from the Permanent Mission of the Union of Soviet Socialist Republics to the United Nations addressed to the Secretary-General

The Permanent Mission of the Union of Soviet Socialist Republics to the United Nations presents its compliments to the Secretary-General of the United Nations and, in conformity with article IV of the Convention on Registration of Objects Launched into Outer Space, has the honour to transmit information concerning space objects launched by the USSR in June 1990 and concerning objects previously launched into earth orbit which are no longer in orbit.

REGISTRATION DATA ON SPACE OBJECTS LAUNCHED BY THE USSR IN JUNE 1990

1. In June 1990, the USSR launched the following space objects:

No.	Name of space object	Date of launching	Basic orbit characteristics				General purpose of space object
			Apogee (km)	Perigee (km)	Inclination (degrees)	Period (minutes)	
1	2	3	4	5	6	7	8
2599	Molniya-3 Launched by a Molniya carrier rocket	13 June	40 839	492	62.8	738	Operation of the long-range telephone and telegraph communication system and transmission of USSR central television programmes to stations in the "orbita" network and in the framework of international co-operation
2600	Cosmos-2083 Launched by a Soyuz carrier rocket	19 June	262	192	82.6	88.7	Investigation of the upper atmosphere and outer space
2601	Gorizont Launched by a Proton carrier rocket	21 June	35 788	35 788	1.4	1 436	Provision of telephone and telegraph communications and transmission of television programmes, continuation of work in the context of the "Intercosmos" programme for the development of new frequency ranges and the creation of long-range systems of space communication jointly with the Byelorussian SSR, GDR, Hungary and Czechoslovakia
2602	Cosmos-2084 Launched by a Molniya carrier rocket on an erroneous orbit. There is no communication with the satellite	22 June	756	590	62.8	98.2	Investigation of outer space

No.	Name of space object	Date of launching	Basic orbit characteristics				General purpose of space object
			Apogee (km)	Perigee (km)	Inclination (degrees)	Period (minutes)	
1	2	3	4	5	6	7	8
2603	Meteor-2 Launched by a Tsiklon carrier rocket	28 June	974	950	82.3	104	Gathering round-the-clock meteorological information

All objects were launched from the territory of the USSR.

2. The following space objects ceased to exist in June 1990 and were no longer in earth orbit at 2400 hours Moscow time on 30 June 1990:

Cosmos-358 (1970-064A)
Cosmos-2049 (1989-088A)
Cosmos-2078 (1990-044A)
Resurs-F (1990-047A)

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Note verbale dated 10 October 1990 from the Permanent Representative of Germany to the United Nations addressed to the Secretary-General

The Permanent Representative of the Federal Republic of Germany to the United Nations presents his compliments to the Secretary-General of the United Nations and, with reference to article IV of the Convention on Registration of Objects Launched into Outer Space, has the honour to transmit herewith the required information concerning the launch of the three new German satellites DFS 1, DFS 2 and TV-SAT 2 as well as changes in the data concerning the satellite TV-SAT 1 that were originally communicated by this Mission's note No. 270/88 of 20 June 1988.

1. DFS 1

(a)	Launching State	Federal Republic of Germany
(b)	Designator	DFS 1
(c)	Date and location of launch	6 June 1989, Kourou, French Guiana, on an Ariane 4, flight No. 20
(d)	Orbit	Geostationary, position 23.5° East
(e)	General function of the space object	Communications satellite

2. TV-SAT 2

(a)	Launching State	Federal Republic of Germany
(b)	Designator	TV-SAT 2

(c)	Date and location of launch	9 August 1989, Kourou, French Guiana, on an Ariane 4, flight No. 33
(d)	Orbit:	Geostationary, position 19° West
(e)	General function of the space object	Direct broadcasting satellite

3. DFS 2

(a)	Launching State	Federal Republic of Germany
(b)	Designator	DFS 2
(c)	Date and location of launch	24 July 1990, Kourou, French Guiana, on an Ariane 4, flight No. 37
(d)	Orbit	Geostationary, position 28.5° East
(e)	General function of the space object	Communications satellite

4. TV-SAT 1

(a)	Launching State	Federal Republic of Germany
(b)	Designator	TV-SAT 1
(c)	Date and location of launch	21 November 1987, Kourou, French Guiana, on an Ariane 2, flight No. 20
(d)	Orbit	Was geostationary, 19° West; current orbital data:

Orbital elements	Present data
Semi-major axis	42 485.605 km
Eccentricity	0.00116
Inclination	0.716°
Argument of perigee	216.66°
Right ascension	76.77°
Mean anomaly	47.086°
Mean drift	-4.071°/day
East longitude	350.617"
Latitude	-0.713°

(e) General function of the space object	Due to a malfunction of the solar generator, TV-SAT 1 was taken out of commission and sent to a so-called parking orbit beyond the geostationary orbit.

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Note verbale dated 7 November 1990 from the Permanent Mission of the Union of Soviet Socialist Republics to the United Nations addressed to the Secretary-General

The Permanent Mission of the Union of Soviet Socialist Republics to the United Nations presents its compliments to the Secretary-General of the United Nations and, in conformity with article IV of the Convention on Registration of Objects Launched into Outer Space, has the honour to transmit information concerning space objects launched by the USSR in July 1990 and concerning objects previously launched into earth orbit which are no longer in orbit.

REGISTRATION DATA ON SPACE OBJECTS LAUNCHED BY THE USSR IN JULY 1990

1. In July 1990, the USSR launched the following space objects:

No.	Name of space object	Date of launching	Basic orbit characteristics				General purpose of space object
			Apogee (km)	Perigee (km)	Inclination (degrees)	Period (minutes)	
1	2	3	4	5	6	7	8
2604	Gamma Automatic observatory (launched by a Soyuz rocket)	11 July	438	419	51.6	93	Research in the field of high-energy astrophysics conducted jointly with France and Poland
2605	Resurs-F (launched by a Soyuz carrier rocket)	17 July	278	194	82.3	88.9	Investigation of the natural resources of the earth in the interests of various branches of the national economy of the USSR; solution of problems relating to ecology and international co-operation
2606	Cosmos-2085 (launched by a Proton carrier rocket)	19 July	35 889	35 889	1.4	1 441	Relaying of telegraph and telephone information
2607	Cosmos-2086 (launched by a Soyuz carrier rocket)	20 July	258	191	82.3	88.7	Investigation of the upper atmosphere and outer space
2608	Cosmos-2087 (launched by a Molniya carrier rocket)	25 July	39 342	613	62.8	709	Investigation of outer space
2609	Cosmos-2088 (launched by a Tsiklon carrier rocket)	30 July	1 537	1 502	73.6	116	Investigation of outer space

All objects were launched from the territory of the USSR.

2. The following space objects ceased to exist in July 1990 and were no longer in earth orbit at 2400 hours Moscow time on 31 July 1990:

Cosmos-2077 (1990-042A)
Cosmos-2083 (1990-053A)

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Note verbale dated 5 December 1990 from the Permanent Mission of the Union of Soviet Socialist Republics to the United Nations addressed to the Secretary-General

The Permanent Mission of the Union of Soviet Socialist Republics to the United Nations presents its compliments to the Secretary-General of the United Nations and, in conformity with article IV of the Convention on Registration of Objects Launched into Outer Space, has the honour to transmit information concerning space objects launched by the USSR in August 1990 and concerning objects previously launched into Earth orbit which are no longer in orbit.

REGISTRATION DATA ON SPACE OBJECTS LAUNCHED BY THE USSR IN AUGUST 1990

1. In August 1990, the USSR launched the following space objects:

No.	Name of space object	Date of launching	Basic orbit characteristics				General purpose of space object
			Apogee (km)	Perigee (km)	Inclination (degrees)	Period (minutes)	
1	2	3	4	5	6	7	8
2610	Soyuz TM-10	1 August	236	201	51.6	88.6	Transport to the Mir manned orbital station of the crew consisting of the cosmonauts G. M. Manakov and G. M. Strekalov for the purpose of carrying out a programme of geophysical and astrophysical research, biological and biotechnological experiments, and work on space-materials science
2611	Cosmos-2089	3 August	342	196	62	89.6	Investigation of the upper atmosphere and outer space
2612	Cosmos-2090 a/	8 August	1 432	1 390	82.6	113.8	Investigation of outer space
2613	Cosmos-2091 a/	"	"	"	"	"	"
2614	Cosmos-2092 a/	"	"	"	"	"	"
2615	Cosmos-2093 a/	"	"	"	"	"	"
2616	Cosmos-2094 a/	"	"	"	"	"	"
2617	Cosmos-2095 a/	"	"	"	"	"	"
2618	Molniya-1 (launched by a Molniya carrier rocket)	11 August	40 634	646	62.7	736	Operation of the telephone and telegraph communications system and transmission of USSR Central Television programmes to stations in the Orbita network
2619	Progress M-4	15 August	235	186	51.6	88.5	Delivery of various cargoes to the Mir manned orbital station

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No.	Name of space object	Date of launching	Basic orbit characteristics				General purpose of space object
			Apogee (km)	Perigee (km)	Inclination (degrees)	Period (minutes)	
1	2	3	4	5	6	7	8
2620	Resurs-F (launched by a Soyuz carrier rocket)	16 August	260	190	82.3	88.7	Investigation of the natural resources of the Earth in the interests of the national economy of the USSR; solution of problems relating to ecology and international co-operation
2621	Cosmos-2096	23 August	430	412	65	92.8	Investigation of outer space
2622	Cosmos-2097 (launched by a Molniya carrier rocket)	28 August	39 342	613	62.8	709	"
2623	Cosmos-2098 (launched by a Cosmos carrier rocket)	28 August	1 997	403	83	109.2	"
2624	Cosmos-2099 (launched by a Soyuz carrier rocket)	31 August	258	191	82.3	88.7	Investigation of the upper atmosphere and outer space

a/ Space objects Cosmos-2090, Cosmos-2091, Cosmos-2092, Cosmos-2093, Cosmos-2094 and Cosmos-2095 were launched by a single Tsiklon carrier rocket.

All objects were launched from the territory of the USSR.

2. The following space objects ceased to exist in August 1990 and were no longer in Earth orbit at 2400 hours Moscow time on 31 August 1990:

1990-014A (Soyuz TM-9)
1990-060A (Resurs-F2)
1990-062A (Cosmos-2086)

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Note verbale dated 1 October 1990 from the Permanent Mission of France to the United Nations addressed to the Secretary-General

The Permanent Mission of France to the United Nations presents its compliments to the Secretary-General and, in conformity with the provisions of the Convention on Registration of Objects Launched into Outer Space, has the honour to transmit information concerning a space object launched in 1990.

OBJECT REGISTERED BY FRANCE IN 1990

United Nations registration No.	Date of launching (UT)	Period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)	General purpose of space object
1990-3-B	30 August	1 436	0.00	35 786	35 786	Telecommunications satellite EUTELSAT-II-F1

The satellite was launched from Kourou (French Department of Guyana).

Note: The European Telecommunications Satellite Organization (EUTELSAT) and France have agreed that France will register the satellite on a provisional basis until EUTELSAT is in a position to register the satellite itself.

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The Permanent Mission of the Union of Soviet Socialist Republics to the United Nations presents its compliments to the Secretary-General and, in conformity with article IV of the Convention on Registration of Objects Launched into Outer Space, has the honour to transmit information concerning space objects launched by the USSR in September 1990 and concerning objects previously launched into earth orbit which are no longer in orbit.

REGISTRATION DATA ON SPACE OBJECTS LAUNCHED BY THE USSR IN SEPTEMBER 1990

1. In September 1990, the USSR launched the following space objects:

No.	Name of space object	Date of launching	Basic orbit characteristics				General purpose of space object
			Apogee (km)	Perigee (km)	Inclination (degrees)	Period (minutes)	
1	2	3	4	5	6	7	8
2625	Resurs-F (launched by a Soyuz carrier rocket)	7 September	267	193	82.6	88.8	Investigation of the natural resources of the earth in the interests of the national economy of the USSR; solution of problems relating to ecology and international co-operation
2626	Cosmos-2100 (launched by a Cosmos carrier rocket)	14 September	1 026	978	82.9	104.9	Investigation of outer space
2627	Molniya-3 (launched by a Molniya carrier rocket)	21 September	40 782	454	62.7	735	Provision of long-range telephone and telegraph communications, transmission of USSR central television programmes to stations in the "Orbita" network and international co-operation
2628	Progress-M5	27 September	246	191	51.6	88.6	Delivery of various cargoes to the Mir orbital station
2629	Meteor-2 (launched by a Tsiklon carrier rocket)	28 September	975	953	82.5	104.2	Gathering round-the-clock meteorological information

All objects were launched from the territory of the USSR.

2. The following space objects ceased to exist in September 1990 and were no longer in earth orbit at 2400 hours Moscow time on 30 September 1990:

1984-007A (Cosmos-1534)
1990-072A (Progress-M4)
1990-073A (Resurs-F)
1990-080A (Cosmos-2099)
1990-082A (Resurs-F)